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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/536,205	03/27/2000	Kayla R. Klingman	6836-US	6836-US 3499	
7	2590 07/17/2003				
Thomas F Lenihan			EXAMINER		
Tektronix Inc PO Box 500			CHUNG, DANIEL J		
Delivery Statio			APTIBUT	0.000.000	
Beaverton, OR	97077		ART UNIT	PAPER NUMBER	
			2672		
			DATE MAILED: 07/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/536,205	KLINGMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel J Chung	2672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON!	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on <u>06 /</u>	May 2002					
	is action is non-final.					
,		proposition as to the monitorie				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
) Claim(s) is/are allowed.						
6) Claim(s) <u>1-6</u> is/are rejected.						
· _	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers 9)☐ The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	s have been received in Applicat	tion No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)	-					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

Claims 1-6 are presented for examination. This office action is in response to the amendment filed on 5-6-2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Etheridge et al (5,986,637) in view of Daniels et al (6,421,619).

Regarding claim 1, Etheridge et al discloses that the claimed feature of a method of operating an oscilloscope that is capable of displaying simultaneously multiple waveforms representing time evolution of a signal during respective acquisition intervals, comprising: a) acquiring [30] waveform data using a first set of acquisition parameters (See Fig 1, Fig 3); b) generating [50] a display based on the waveform data acquired in step a), in the event that the display generated in step b) includes a waveform that is visually distinct from other displayed waveforms (See Fig 1, Fig 3, Abstract, col 11 line 44-46); c) selecting [57] a feature that distinguishes the visually

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distinct waveform from other displayed waveforms, (See Fig 1, Fig 3, Abstract, col 11 line 46-51); d) automatically deriving [55,57] acquisition parameters that discriminate between the selected feature and other features of the displayed waveforms, (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17); e) acquiring [30] waveform data using the acquisition parameters derived in step d), and f) generating[50] a display ["new composited image"] based on the waveform data acquired in step e) (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17)

Etheridge et al does not specifically disclose that "acquiring waveform data using automatically derived acquisition parameters that discriminate between the selected feature and other features of the displayed waveform". However, such limitations are shown in the teaching of Daniels et al. ["an oscilloscope for automatically analyzing an input signal, utilizing each of plurality of triggering modes and trigger parameters specified for each of the triggering modes"]. (See Abstract, col 1 line 11-17, col 1 line 65-col 2 line 20, col 3 line 1-10, col 5 line 26+) It would have been obvious to one skilled in the art to incorporate the teaching of Daniels into the teaching of Etheridge et al, in order to assist a user with not complicated way of operating an oscilloscope, as such improvement is also advantageously desirable in the teaching of Etheridge et al for providing clear visual representation for selecting and combining various display parameters with simple and uncomplicated operation at faster processing time.

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Regarding claim 2, Etheridge et al discloses that step c) includes graphically defining a template that specifies the selected feature and step d) includes employing information regarding the template to derive additional acquisition parameters. (See Fig 1, Fig 3, col 12 line 9-16)

Regarding claim 3, Etheridge et al discloses that the oscilloscope has multiple trigger modes[20], step c) includes graphically defining a template that specifies the selected feature and step d) includes employing information regarding the template to select a trigger mode for preferentially acquiring waveforms that include the selected feature. (See Fig 1, Fig 2, Fig 3, Abstract, col 3 line 35-col 4 line 6)

Regarding claim 4, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the template is a scalable rectangular box and step c) includes positioning and sizing the box so that it contains the selected feature. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6)

Regarding claim 5, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the oscilloscope has a display screen on which the waveforms are displayed and the template is a sketch generated on the display screen. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6)

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Regarding claim 6, claim 6 is similar in scope to the claim 1, and thus the rejection to claim 1 hereinabove is also applicable to claim 6.

Claims 1-6 are once again rejected under 35 U.S.C. 103(a) as being unpatentable over Etheridge et al (5,986,637) in view of Trsar et al (5,852,789).

Regarding claim 1, Etheridge et al discloses that the claimed feature of a method of operating an oscilloscope that is capable of displaying simultaneously multiple waveforms representing time evolution of a signal during respective acquisition intervals, comprising: a) acquiring [30] waveform data using a first set of acquisition parameters (See Fig 1, Fig 3); b) generating [50] a display based on the waveform data acquired in step a), in the event that the display generated in step b) includes a waveform that is visually distinct from other displayed waveforms (See Fig 1, Fig 3, Abstract, col 11 line 44-46); c) selecting [57] a feature that distinguishes the visually distinct waveform from other displayed waveforms, (See Fig 1, Fig 3, Abstract, col 11 line 46-51); d) automatically deriving [55,57] acquisition parameters that discriminate between the selected feature and other features of the displayed waveforms, (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17); e) acquiring [30] waveform data using the acquisition parameters derived in step d), and f) generating [50] a display ["new composited image"] based on the waveform data

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acquired in step e) (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17)

Etheridge et al does not specifically disclose that "acquiring waveform data using automatically derived acquisition parameters that discriminate between the selected feature and other features of the displayed waveform". However, such limitations are shown in the teaching of Trsar et al. (See Abstract line 12-23, col 2 line 13-56, col 4 line 36-49, col 9 line 38-47). It would have been obvious to one skilled in the art to incorporate the teaching of Trsar et al into the teaching of Etheridge et al, in order to assist a user with not complicated way of operating an oscilloscope, as such improvement is also advantageously desirable in the teaching of Etheridge et al for providing clear visual representation for selecting and combining various display parameters with simple and uncomplicated operation at faster processing time.

Regarding claim 2, Etheridge et al discloses that step c) includes graphically defining a template that specifies the selected feature and step d) includes employing information regarding the template to derive additional acquisition parameters. (See Fig 1, Fig 3, col 12 line 9-16)

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Regarding claim 4, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the template is a scalable rectangular box and step c) includes positioning and sizing the box so that it contains the selected feature. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6)

Regarding claim 5, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the oscilloscope has a display screen on which the waveforms are displayed and the template is a sketch generated on the display screen. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6)

Regarding claim 6, claim 6 is similar in scope to the claim 1, and thus the rejection to claim 1 hereinabove is also applicable to claim 6.

Response to Arguments/Amendments

Applicant's arguments with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Chung whose telephone number is (703) 306-3419. He can normally be reached Monday-Thursday and alternate Fridays from 7:30am- 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael, Razavi, can be reached at (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

djc July 10, 2003

> MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600